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May 1997



FIRST-CLASS MAIL



Pikes Peak Radio Amateur Association, Inc.
P.O. Box 16521
Colorado Springs, Colorado 80935

1 Renew before 08/31/97
 ROBERT ROLLER
 WB7WHT
 4846 HERNDON CIR.
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O-Beat



Pikes Peak Radio Amateur Association Officers and Directors

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*This Officer/Director is completing the second year of the two-year term to which they were elected.

The O-Beat is published monthly in the interest of the members of the Pikes Peak Radio Amateur Association, Inc., PO Box 16521, Colorado Springs, Colorado 80935. For membership and subscription information see the last page of this publication. Monthly advertising rates: Full page, \$48; Half page, \$24; Quarter page, \$12; Business card, \$6. These rates are billed quarterly. Send your ad requests and payments to: PPRAA, PO Box 16521, Colorado Springs, Colorado 80935.

Check out the PPRAA page on the World Wide Web! Go to: <http://www.qsl.net/ppraa>

Deadline for submission of articles or advertisements is the 20th of each month. Submissions are accepted in any form. Articles should be sent directly to the O-Beat Editor (email to kdøju-1@juno.com is preferred.) Permission is granted to reprint articles provided credit is given to both the author and this publication.

License Exams

License examinations sponsored by the Pikes Peak Radio Amateur Association are held on the 2nd Saturday of February, April, June, August, October, and December.

Testing takes place at 9 A.M. at:

Denver Technical College
225 South Union
Colorado Springs

Everyone is seated on a walk-in basis. Those wishing to take an exam should bring the following items:

1. \$6.25 (preferably a check/money order made out to ARRL/VEC) for any exam other than element 1A or 2.
 2. Picture identification
 3. A copy of your current amateur radio license, and/or a copy of any examination credit you have, as well as the signed original. We keep the copies.
 4. A pen, pencils, and a calculator if you need one.
- If you have any questions, call Erik Mugele, KGØXE at 596-5345. Please do not call Denver Technical College.

Committee Chairpersons/Contacts

O-Beat Editor	Bill Pierce	KDØJU	550-0406
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Swapfest '97	Carlos Caro	KBØREI	632-1569
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Other Organizational Liaisons

ARES Liaison	Mike Stansberry	KØTER	636-1290
CCARC Liaison	Ron Deutsch	NKØP	593-8352
RACES Liaison	Larry Dunn	N9HSW	481-0369

Reminder — General Membership Meeting

The next General Membership Meeting of the Pikes Peak Radio Amateur Association will be on the second Wednesday of this month at the Disabled American Veterans Hall, 6880 Palmer Park Blvd. The meeting will start at 7 PM.

PPRAA General Membership Meeting Minutes April 9, 1997

The meeting was opened at 1900 by our president, Jeff Boyes NØJLH. During the introductions round there were several new callsigns heard, including KCØAGG and KCØAEC. In addition, Phil Verret KA8ZKR announced that he was being transferred to Albuquerque by the Air Force. Sorry to see you go, Phil. Keep in touch. After introductions, the treasurer's report was read by Rob Roller WB7WHT, our treasurer. Minutes from last month's club meeting were accepted as printed in the Ø-Beat.

Next were the committee reports. Renay Boyes KAØROY, Activities chair, announced she was working on the Christmas party, calling around to compare prices for a place to hold the party. Luci Stansberry NØOUD filled in for Mike Stansberry KØTER, our Public Service liaison (Mike was at the Pikes Peak Int'l Hill Climb meeting). Luci passed around some sign-up sheets for several upcoming public service events. Ron Deutsch NKØP, the CCARC liaison, attended a recent quarterly meeting of the CCARC (which he explained is the Colorado Council of Amateur Radio Clubs, basically a "club" of clubs in Colorado). At that meeting the attendees discussed the upcoming G-7 summit meeting [may now be called the Summit of Eight -] and that there might be numerous club activities for Colorado clubs

associated with that meeting. There were also LEO discussions, among others. The next meeting will be held in 6 months. Ron asked if anyone had ideas where the PPRAA could host a CCARC meeting. Jeff Ryan NØWPA suggested the Colorado Springs PD station for the Falcon subdivision. They have a nice community meeting room there. Ron also asked if anyone had contact information for the Pueblo Ham Club so he could see about assisting with an interference problem. Contact Ron if you have any information.

Rob Roller WB7WHT gave a short update on the hamfest/raffle situation, since the hamfest chairman Carlos Caro KBØREI was out town. Raffle license was procured, raffle tickets have been printed are being sold, Dennis Major KBØSXC is the contact for renting tables. All prizes were on display at the meeting [see elsewhere in this issue for a raffle prize description -] and ticket sales at the meeting were being handled by Rosie Calaway WAØMNL and Ted Allison NØ(Never)(Kiss)(Gorillas).

Harry Russell NØSFP our trailer custodian announced he is moving and urgently needs a place to where he can move the trailer for storage. He has to have a place by May 1. No one at the meeting offered to take the trailer. Linda Hedges KBØRKW, the technical instruction committee chair, read off the calls of the new amateurs licensed during recent testing.

KBØZPI, KBØZPO, KCØADY, KCØADZ, KCØAEA, KCØAEC, KCØAED, KCØAEF, KCØAEG, KCØAEH and KCØAGG. Congratulations to all!

There were no other committee reports.

Kicking off old business, Rob Roller WB7WHT gave a brief report about a disappointing situation. NASA and AMSAT have decided to postpone the round 3 schools scheduled to speak to the astronauts on board the space station Mir. That means that the kids and teachers at Prairie Hills Elementary School will have to wait a while longer for the contact to take place. All of this is due to the recent string of problems on Mir with failed oxygen generators and the fire on board.

For new business, Bob Antion WL7RV resigned as secretary, citing evening classes in school as taking its toll on his ability to attend meetings and adequately fulfill his duties. Per bylaws, there will be an election at the May meeting to elect another secretary to fill Bob's position and serve the remaining time as secretary and board member. The Hammy Award was presented by Renay Boyes KAØROY to Aaron Pelouze KD6FLM for all the work that Aaron does for the club.

George Lockhart WBØDUM suggested that the club design a club hat to match the club jacket. Jake Jacobs NØCYR modeled his hat for the group. Someone

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else mentioned the hats can be purchased by anyone right now at the same place the jackets are made. Doug Moloney WBØMHP announced an upcoming fox hunt on April 13. John Roth NØQJS will be the fox. The meeting place this time will be at Batteries Plus, 2 blocks west of Academy Blvd on Austin Bluffs Pkwy. There's a social gathering at 1345 and the hunt begins at 1400. Doug Paris N4TGO announced the Skywarn training scheduled for 26 April at the Hewlett-Packard building on Garden of the Gods Rd. He also passed around a sign-up sheet for that training. The meeting will run from 0800 to 1700.

Bob Armstrong AEØB told us about a solar flare that was affecting our communications at that time. Hal Bergeson WØMXY added more information about the flare. Hal said that we should try tuning 2m or 6m as there were some reports already of amateurs working 900 miles on those bands. Greg Tarcza WA2OOD announced that the estate of Bob Hrebek AAØZA (SK) donated some money to the club. Greg also brought in a donated scanner, which was later given away for a small donation to the club. (We later had a drawing at the meeting since there were so many that wanted that scanner. Ron Deutsch NKØP walked away with the scanner.) There's more equipment available from the estate, including a Hallicrafters SX-100. Contact Greg for more information.

After the break and the door prize drawings, a program on repeaters was presented by David Allen, NØIPQ. David is the head of the technical committee for the Pikes Peak FM Association, and is responsible for the fine, reliable communications provided by the PPFMA repeaters. David had some help from Dave Stroup NØZLZ to show off the components brought in for the program. The presentation was about what's in a repeater, and was very informative, describing what goes in to a repeater and how all the subsystems work together to make a repeater work. He described the transmitters and receivers, the two frequencies that are used (actually four frequencies if you include the link radio for the autopatch), the controller, the autopatch, the duplexers, the antennas and the power supplies and backup batteries.

Meeting adjourned at 2025.

[Respectfully submitted by
WB7WHT]

PPRAA Board of Directors Meeting Minutes April 1997

The Board meeting was called to order by the President Jeff NØJLH at the home of Mark NØEPF at 7:02 on April 14, 1997. The following members and guests were present: Jeff NØJLH, Aaron KD6FLM, Rob WB7WHT, Bill KDØJU, Les KCØNC, Dennis

KBØSXC, Mark NØEPF, Greg WA2OOD, Moe WBØRTF, Russ KBØFNM, Rosie WAØMNL, Renay KAØROY, and Jody KAØROZ

Old Business:

Renay reported on locations for the Christmas Party. Motion made and seconded to book the Colorado Opera for December 12th or 19th. Motion carried. The Club picnic will be on August 17, at the USAFA area #3. Dennis reported that table sales seem to be a little slow at this time, but hope they will improve. Also no contact has been made in regard to the Amateur Radio News Service membership. Aaron reported on the reproduction of Club pictures to be used for public service events. Rob reported that the SAREX project has been heading up has been put on hold, until problems on the space station are resolved.

New Business:

Rob made a Motion that Frank NØIEM be reimbursed for the \$62.66 spent on building the Club public service display board. Motion carried. Rob presented a letter requesting help with the Elmer project of the ARRL (See article). Rosie made a request for money to purchase hourly door prizes for the Swap Fest. Motion by Rosie to spend \$100.00 for same. Motion carried. Jeff reported that the Club trailer will have to be moved by the end of the month. Much discussion followed. Several options will be looked into. May Board will be at Aarons home, and Greg will host the June meeting.

Zero Beat

Meeting adjourned at 8:30.
Submitted by Les KCØNC (acting secretary)

PPRAA Treasurer's Report April 1997

General Fund Activity 01-Mar-97
thru 31-Mar-97:

Income - Expenses = Net Gain
(Loss)
\$139.00 - \$227.80 = (\$88.80)

Full report is available from the treasurer.

Now for one of the last installments in the 501(c)(3) series. What's that old expression: "for every silver cloud there's a dark lining"? Or was it "you can't have your pie and keep it too"? Whatever. So it goes with the 501(c)(3) stuff. For all the good things it could bring us, there's some costs and work associated with it.

Forming the corporation. For us, part of that work is already done. We have a set of bylaws, articles of incorporation and a board of directors. But the first of these documents were done over 30 years ago, and probably without the intention of forming a 501(c)(3) corporation, if that tax status existed 30 years ago. What we don't have, though, are documents designed to recognize us as a 501(c)(3) corporation. In other words, we'd have to modify parts of those documents to show our intention to be a nonprofit

corporation as defined by law, explicitly mentioning that we're incorporating for tax exempt purposes.

Money. It'll cost us some money to do this. The federal government charges a \$465 application fee. I don't know yet if we'd have to pay the state to "re-incorporate". The normal incorporation fee in Colorado is \$50. I do know we can change our bylaws or articles, but I don't know if there's any cost to refile the articles with the state. Nevertheless, \$465 is relatively small compared to the possible returns, grants, etc we could receive.

Time. According to a chamber of commerce handout, it takes about fifteen months to incorporate. And the IRS could (likely) need more information from us during that 15-month period. The exact information that they require is unknown right now. I have sent away for some of the forms to see what they want to know.

I've eluded to forms, and that's probably one of the biggest obstacles to many organizations: keeping records that are worthy of IRS scrutiny. What happens fifteen months down the road? Who will be the treasurer at the time? Of course, that'll be part of the treasurer's duties, so it wouldn't be a matter of whether the treasurer wants to do it or not. Instead it'll be a matter of who wants to volunteer to be treasurer. Or the secretary, or any other board member for that matter.

Getting things started in the club. There are two schools of thought on this. First, since the board is responsible for the business activities of the club, and since the board will be doing practically all the work related to the change caused by the 501(c)(3), one thought is that the decision to go 501(c)(3) or not should be made by the board. The \$465 application fee is below the maximum amount that the board can spend without member approval, so the board has the power to spend \$465 without member approval.

The other thought is that the club members should vote to apply or not. I mentioned that the bylaws and articles will have to be modified. Those modifications will require a 2/3 majority vote of the club members. So there's no sense in the board doing any kind of a vote unless it's clear that the rest of the club members are going to approve the changes. It's going to have to be a club decision right from the start. We'd likely take a vote on whether to proceed with the application process, and then propose amendments to the bylaws and articles. Note that these changes should have no effect on the normal club activities (meetings, Field Day, picnic, public service). But they will affect the way the club conducts the board business and the compliance with more rules than we've ever had to deal with before.

In many ways, forming a 501(c)(3) corporation is much easier if it's done as the club is incorporating. Waiting thirty years is more

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difficult, because now there's 200+ people involved, instead of a smaller group of people the size of a board of directors. But it can be done with an organization of any size if enough people are interested it.

So, what kind of comments can we expect to hear?

"I just want to come to the club meetings and listen to the presentation and see old friends. I really don't care about the 501(c)(3). I don't want to bother with any of this." If that's the way you feel, perhaps you should skip the club meeting where this discussion takes place, or if you come, don't vote.

"I just want to come to the club meetings and listen to the presentation and see old friends. I really don't care about the 501(c)(3). But I don't want to see anything change, so I'm going to vote against it." If you really don't care about the 501(c)(3), why vote against it? Why vote for it? Again, abstain if you don't have a good reason to vote for or against it.

"I might want to be on the board someday. Getting a 501(c)(3) will probably keep me away wanting to run for an office." This is a legitimate concern, and probably one of the main reasons for someone to vote against it. So in this case, it requires some thinking on your part. Why do you want to run for an office? Most people join a board because they have a genuine interest in making the club

a better place. The club can still be a better place even if we don't get a 501(c)(3). So you have to decide whether or not you want the additional responsibility of managing the club's activities with a little bit more of a fine tooth comb, and vote accordingly. The board members will be most affected; the average club member won't feel any effect unless he or she wants to get involved. "Is it going to change the way we do things at the meetings?" It shouldn't. The changes will be at the board level, behind the scenes, so to speak. But it might make some of the meetings more interesting depending on what's done with the 501(c)(3). IF we get the 501(c)(3), and IF we get people that are really interested in taking advantage of that status, and IF we can actually get some nice donations or grants, the club can go off into directions it's never been before. If we get the 501(c)(3) and there's no one in the club that wants to put in some hours, there will be absolutely no difference to the way things are currently done.

So, that's about it. I know I didn't cover every detail or answer every question. I don't know all the answers, because I've personally never been part of the process to apply for a 501(c)(3). But I would like to introduce some discussion at the next club meeting in May, just to get a feel for the way club members think. Then at the June meeting, I'd like to take a vote on whether or not the club should proceed. The vote would likely ask

that the board be directed to start the application process, getting all necessary paperwork in order, proposing changes to the bylaws and articles, and requiring the board to prepare for a bylaws and articles review at the annual meeting in October which includes the changes necessary to go with the 501(c)(3). Since the IRS application required the bylaws and articles along with the \$465 fee, the board wouldn't spend the \$465 until the bylaws and articles were approved. At that time, the green light would be given. It's time to talk.



Dits and Bits

For Sale: by KDØJU

- QUAD SPIDER HUB by Van Gorden Engineering, one set comes with hardware in original packing; two other sets have no hardware. May be used for construction of Cubical Quads, Delta Loops, Turnstile Antennas and more! Will sell or trade! \$20 takes all or will trade for a used BayCom TNC.
- ICOM Tone Squelch Unit, UT-40. Can be installed in any IC2G/4G/12GAT or IC-32A/E. Was ~\$39 new. Has never been used. Want \$19. Eve: 719-550-0406 Days: 719-573-6481 email: kd0ju-1@juno.com

Zero Beat

For Sale: by KØCI, Steve

- Kantronics KAM all-mode TNC version 5.0, Asking \$135
 - Johnson Messenger 123A, 23 Channel CB Radio (Could be converted to 10 meters) Asking \$15
- Call Steve at 598-3554

El Paso County HF Roundtable

Sunday evenings just after the El Paso County RACES 7:30 PM (local) HF net, on 28.385 MHz.

Everyone is invited to check in.

PUBLIC SERVICE & ARES ACTIVITIES

Keep current on public service activities and general Colorado ARES activities via the world wide web:

<http://www.usa.net/ares/ares.htm>.

Get on the automated Colorado ARES e-mail list by sending your subscription request to majordomo@rmsd.com. In the body, include the line:

subscribe aresco

Public service activities are also listed on the ARES cluster on 144.93 Mhz. Connect to ARES14 or WA0VTU, and enter the command:

type/cal events

Finally, the Pikes Peak Radio Amateur Assn, which supports public service events, has their own web page at <http://www.qsl.net/ppraa/>.

OM/YL LUNCH BUNCH

22nd
The Lunch Bunch will get together for lunch and visiting Thursday, May 15th, Noon time, at Country Buffet, 751 N Academy, in Colorado Springs. An invitation is extended to all of you who can join us.

73

Rosie Calaway, WAØMNL
471-9965

IT'S GOOD TO BE BACK by WAØMNL

It's good to be home again after three months in Texas. We visited with Floyd and Faylene Bryant, KB5FCN and KB5FTN. They live in Universal City, a suburb of San Antonio. Floyd is chief of police in University City and Faylene is employed at a local military base.

When they lived in the Springs, Floyd was in the Air Force and

they were active members in the PPRAA, where Floyd served on the Board of Directors as a PPRAA officer. Floyd and Faylene send their best wishes to all their friends here.

Editor's Notes Bill Pierce, KDØJU

Hope everyone survived the snow last month.

Two big things, maybe three, happened last month. The biggest is that my 8 year old 386's hard drive crashed for its final time. This was the fourth and final crash this year.

I could not recover the from the crash, as I did the last three times, by cleaning the fingers of the controller extended card. The drive is dead. Since my backup drive was full (and had been for some time) I was unable to back any of the Ø-beat files or my email program and data files. (I had been looking for more backup disks but Bernoulli disks are hard to come by.)

I may recover some of the data at a later time from one of the data recovery sources here in Colorado Springs. But at \$5 to \$10 per megabyte it could get rather expensive.

Now you ask "What are you using to get this Ø-Beat out?" Well courtesy of Uncle Sam, via a federal income tax refund, I bought

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a new computer. It was in the plans; I just didn't want to get quite this soon.

I would like to thank Rob, WB7WHT for watching my email during my crashes and especially during this last one. And also for getting me back on email through Juno by downloading their latest disk from the Juno Web site. A big THANKS Rob!!

Temporarily I have lost my packet address. It was through a gateway in northern Colorado and was forwarded to my "old" email address of kd0ju@juno.com. In 25 or so days when the present name and password combination expires I'll be able to get it back. In the mean time you can email me at kd0ju-1@juno.com. If you don't see your article here in this issue or the next you will have to resubmit it. Sorry about that but that's the way the bits byte!

As always I need more articles; the more the merrier, large and small.

Highest priority and quickest to get in the Ø-Beat is anything sent by email. From there it goes like this:

#2 3.5 inch floppy

#3 Type written or printed paper

#4 Word of mouth (over the air or by phone.

#5 hand written

Temporarily for now I won't be able to scan anything in. I'll have the page scanner online before the

next Ø-Beat deadline.

So get those articles in! And enjoy the snow! (if there is any left in May!)

73

Bill Pierce

KDØJU

Editor

SWAPFEST RAFFLE UPDATE by WB7WHT

Well, after a rough start getting things rolling with the hamfest, we have our raffle license and ticket sales are underway. I passed out several books of tickets to each board member at the April board meeting, so I expect 100% sales from each of them. We've got some good prizes this year, something for everyone.

The biggest prize is the ICOM 707 HF transceiver, a compact 160-10 meter, 100W radio that fits nicely on any desktop or in any vehicle. Next is the MFJ-9406X 6m SSB 10W transceiver, great for the Technician or higher that wants to experiment with a new band. I'd say a majority of us haven't worked 6m before. For anyone with a transmitter or receiver there's the MFJ-259 antenna analyzer which can find practically any antenna problem there is. Finally, even if you haven't received your license yet, you'll never get lost with the Garmin GPS-40 handheld GPS receiver. Use it while hiking, hunting, or to mark your favorite fishing spot!

Plus we'll have hourly door prizes. Rosie is going to work on getting some of those, and I've also received a few free subscriptions to World Radio and Amateur Radio Trader which will be included in the door prize drawings.

Tickets are on sale for \$1 each, or 6 tickets for \$5. Contact your favorite board member to make a purchase. Or call me if you can't get a hold of another member. I've got a few here at home. Just get your tickets into the barrel by 1400 on May 17th and you stand as good a chance as anyone else to WIN, WIN, WIN! First drawing for the door prize is at 0900, with hourly drawings after that. The raffle prizes will go at 1400. Winners need not be present to win. Any questions? Call me about the raffle at 282-0204. No calls refused!

Recap of Tuesday night net on
22-Apr-97:

Name change: From now on we'll refer to District 14 as Pikes Peak District ARES. We're still District 14 as far as everyone is concerned; the change was made primarily to familiarize some of the newer amateurs to ARES, letting everyone know without wondering what District 14 is.

Skywarn class is 26-Apr from 0800 to 1700, held at Hewlett-Packard, 1900 W Garden of the Gods. Arrive between 0730 and 0750 for sign-up. Class starts promptly at

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0800. There'll be some great video and slides of local severe weather. Participants will get a copy of a map which has an overlay based on the NWS radar, so that you can identify a storm's location given azimuth and distance from NWS radar. Be prepared to give your home/work/pager phone numbers for the roster. Today is the cutoff for signing up for the 26-Apr session. The next session is scheduled for 10-May in Woodland Park.

Talk-in on 146.97-. Contact Doug Paris, N4TGO at n4tgo@sprynet.com. Also contact Doug to sign up for the Walk with the Stars.

Staff meeting was 19-Apr. Larry will post minutes as soon as he can.

NØNKG Ted Allison is looking for volunteers to form a Salvation Army staff to help man their canteen on Salvation Army missions. Contact Ted at teda@col.hp.com.

Jack Connelly Jr WAØZEB reports that the antenna at Langstaff-Brown in Woodland Park is now permanently mounted, but still needs some work. Jack also has packet radio. Send e-mail to him on packet at WAØZEB @ NØWPA.

Mike Stansberry KØTER, reporting for public service, states that all involved in this weekend's March of Dimes Walk America (on 26-Apr) should report at between 0700 and 0730 to the NW corner of Memorial Park at the Veteran's Memorial, corner of Hancock and Union. He's also accepting sign-ups for the Pikes Peak Int'l Hill Climb. Contact him at jms@col.hp.com

Ginger Hipszky NØUOD is working with Margee Herring KC6NEJ on setting up a station at the American Red Cross building. Also, Ginger is accepting sign-ups for the Balloon Classic for the end of the summer. Contact Ginger at ghipszky@kktv.com.

The Mountain Amateur Radio Club has new Communicator editors and publishers: Mac and Elaine McGreevy, KBØRVU and KBØRFH respectively.

This change comes after George Hinds N8CIX steps down to see the USA.

George has been editor of the Communicator for quite a few years, and we've all appreciated his fine efforts over the years to keep the MARC members informed. A number of PPRAA members are also MARC members, so we certainly appreciated it. George had written for the 0-Beat a number of times in years past as well. Thanks, George!

ARRL Special Bulletin ARLS013 STS-83 reflly is a "go" for July with SAREX on board

Word from NASA this week is that shuttle mission STS-83--cut short in early April because of a fuel cell problem aboard the spacecraft--will be reflown in July with the Shuttle Amateur Radio EXperiment--SAREX--aboard. The new mission will be dubbed STS-94. The space shuttle Columbia prematurely returned to Earth April 8 without making any of the scheduled QSOs with 18 schools in the US, the People's Republic of China, and Japan. Sixteen schools want to arrange new schedules for the July mission, which will again carry the microgravity science lab. Three hams were aboard STS-83: Jim Halsell, KC5RNI, the mission commander; Janice Voss, KC5BTK, and Donald Thomas, KC5FVF. The same crew likely will be tapped for STS-94, set to launch on July 1 for a 16-day mission.

In the meantime, more QSOs of a scheduled round of ten MIREX school contacts have taken place with Jerry Linenger, KC5HBR, aboard the Russian Mir space station. Students at Holy Angels School in Dayton, Ohio, got a chance to chat with Linenger April 21. The ground station, W8DOZ, was running 35 W into a turnstile antenna. On April 23, students at Jerling Junior High School in Orland Park, Illinois--a Chicago suburb--had a 10-minute contact with Linenger. More than a dozen students got to speak directly to

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Linenger as an audience of 800 students and 200 visitors looked on. Nearly 2500 students in other schools also got to listen in.

Linenger and his cosmonaut flight companions, Mir-23 Commander Vasily Tsibliev and Flight Engineer Alexander Lazutkin, managed to restore one of two Elektron oxygen generators aboard Mir. The repair ended a serious problem for the Russian space outpost. The three used equipment shipped to Mir April 8 aboard a Progress resupply rocket. With the Elektron electrolysis system at least partially back in operation and the Mir's primary carbon dioxide scrubber also operational once more, the air aboard the Mir is healthier than it has been in weeks. Because the system is not producing oxygen at a rate sufficient for three crew members, however, the crew is supplementing the Mir's atmosphere with gaseous oxygen.

The Mir also has a healthy stock of oxygen-generating candles to use if necessary. Wire service reports say the Mir crew has, for the time being, given up efforts to track down an elusive cooling system leak that's allowing ethylene glycol coolant to leak into the atmosphere of one spacecraft module.

NASA reportedly intends to go ahead with plans for astronaut Michael Foale, KB5UAC, ADD to replace Linenger in mid-May. Foale, who will arrive on the shuttle Atlantis, is scheduled to be replaced in September by astronaut Wendy Lawrence, KC5KII. The last US astronaut scheduled for a tour of duty on Mir is David Wolf, KC5VPE, in early 1998. The 11-year-old Mir space station eventually will be replaced by the International Space Station—a cooperative venture between Russia and the US.

The club picnic on Aug 17th at the Air Force Academy Picnic area #3. Members should direct questions and volunteer to Ron, NKØP, email: deutschra@aol.com or call 593-8352.

This space could have (should have?) been yours!!



Remember, this is our newsletter!
Contact the editor with your suggestions!



Pikes Peak Radio Amateur Association, Inc.



HAMFEST & ELECTRONICS SHOW

Saturday May 17, 1997

0800 to 1400 (Vendors 0600) VE Testing 1000

Colorado Springs

Doherty High School: 4515 Barnes Rd
(See Directions on bottom of page 10)

General Admission \$4.00 (Under 18 Free)
Vendors: First Table \$12.00 Additional Tables \$10.00

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Drawing !!! Prizes !!!



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**Drawing at 1400 May 17, 1997 Plus Hourly Door Prize Drawings
Winners Need Not Be Present To Win**

Raffle Tickets \$1.00 each or 6 for \$5.00

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P.O. Box 16521, Colorado Springs, CO 80935

**Contact: Carlos Caro KBOREI
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Please Note: You must submit a completed application form along with your check to the Treasurer for both new members as well as renewals. Thank you. PLEASE TYPE OR PRINT CLEARLY!